Team Lead - Senior Software Development Engineer

Boris Faure

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Employment

- **SCALITY** PARIS, FRANCE
  Software Engineer – Team Lead *September 2013 – Present*
  Scality provides software-defined petabyte-scale storage solutions.

  - Wrote in C a highly threaded cache system with read-ahead detection for files on top of the object store product called the Ring;
  - Wrote a cache for directory operations to help speed up the file-system product;
  - Added versionning support with life-cycle policies to the file-system product;
  - Wrote a library to export the file-system product on NFSv4 with Ganesha, a user-space NFS server;
  - Hardened the erasure coding feature in the Ring;
  - Led a team of 12 engineers on the connectors accessing the Ring.

- **INTERSEC** COURBEVOIE, FRANCE
  Software Engineer *October 2009 – August 2013*
  Intersec develops software products for mobile operators.

  - Wrote in C a high-availability temporal statistics server handling hundreds of thousands of events per second and storing them for many years;
  - Developed in C and PHP a Short-Message-Service Center;
  - Wrote a Value-Added Service product from end to end: backend in C and Javascript using v8, front-end in PHP and Javascript.

- **INTERSEC** COURBEVOIE, FRANCE
  Software Engineer Student *2009 – 6 months internship*

  - Improved how mobile messages are networked in the high-performance MCG product, a distributed Multi Channel Gateway written in C.

- **CEA (FRENCH ATOMIC ENERGY COMMISSION)** VALDUC, FRANCE
  Software Engineer Student *2008 – 5 months internship*

  - Developed a software program to optimize and analyze the sensibility of cœfficients in state equations used to model the behavior of materials in precise areas in pressure and temperature.

Experience

- **TERMINOLOGY** https://terminolo.gy/
  Software Engineer *October 2009 – Present*

  - Lead developer on the Terminology project: a terminal emulator written in C using the Enlightenment Foundation Libraries;
  - Gave a talk on Terminology at FOSDEM 2013;
  - Wrote in C a tiling module for the Enlightenment window manager.

- **RUST/VUE.JS PROJECT**
  Software Engineer   *April 2016 – Present*
  Work on an unreleased web application.

  - Developed the backend based on PostgreSQL in Rust;
  - Wrote the frontend in javascript with Vue.js.

- **NODE.JS PROJECT**   https://github.com/borisfaure/photoalbum/
  Software Engineer   *July 2013 – Present*
  Wrote in Node.js a static photo album generator.

- **aMSN PROJECT**   http://www.amsn-project.org/
  Software Engineer   *2004 – May 2011*
  aMSN Messenger was an open source multiplatform MSN messenger clone.

  - Worked on the first versions written in Tcl;
  - Designed a new version written in Python and wrote the EFL and web front-ends;
  - Reverse-engineered the Ink Serialized Format - format invented by Microsoft and used for their Tablet PC and Windows Mobile systems and developed in C the libISF library used to decode and encode ISF files.

Core Technical Skills

- **Software architecture, network programming, distributed environment**

- **Systems:** Linux

- **Common Languages:** C, Rust, Python, JavaScript, Erlang, PHP, Tcl, LaTeX, Brainfuck

- **Development Tools:** ViM, Git, GDB, Valgrind, perf

- **Open Source contributions:** Terminology, Enlightenment, Git, Erlang, Tmux, aMSN, . . .

Education

- **ISIMA**   CLERMONT-FERRAND, FRANCE
  Master degree in Computer Science   *2006 – 2009*
  Obtained with honours an Engineering diploma in Computer Science at the ISIMA, Computer Science Engineering College.

- **CLASSE PRÉPARATOIRES DU LYCÉE CARNOT**   DIJON, FRANCE
       2004 – 2006
  Studied for competitive admission into French engineering colleges.

- **LYCÉE CARNOT**   DIJON, FRANCE
  Baccalaureate S   *2004*
  Obtained with honours a Baccalaureate S, Option Engineering Science, A-levels equivalent.

Languages

- **French:** native speaker

- **English:** fluent

And when I am not doing the above, I like riding my bicycle (and promoting its usage in Paris), hiking and skiing.